

Message Text

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TAGS: PFOR, EMIN, ENRG, OSCI, PL, OTRA, OVIP

SUBJECT: VISIT OF POLISH MINING EXPERTS

REF: WARSAW 6515 AND 6462

MINISTRY OF MINING AND POWER PROVIDED FOLLOWING DETAILED LIST OF SUBJECTS THAT POLISH MINING EXPERTS DELEGATION WOULD BE PREPARED TO DISCUSS DURING FORTHCOMING US VISIT. MINISTRY REPRESENTATIVE STATED THAT LIST MIGHT BE HELPFUL TO BUREAU OF MINES IN SELECTING COOPERATIVE TOPICS FOR DISCUSSION, BUT POLISH DELEGATION DOES NOT EXPECT THAT ALL TOPICS NECESSARILY BE COVERED. TOPICS NOT LISTED THAT US SIDE MAY WISH TO INTRODUCE WOULD BE WELCOMED.

1. PROJECTS WHICH COULD BE EXECUTED INDEPENDENTLY BY THE POLISH SIDE.

A) UTILIZATION OF SPOIL HEAPS FOR FILLING OF MINE WORKINGS.

B) TECHNOLOGY OF MINING UNDERGROUND DEPOSITS WITH MAXIMUM SURFACE PROTECTION.

C) VENTILATION SYSTEMS IN DEEP MINES WITH APPLICATION OF AUTOMATIC CONTROL AND ANTI-METHANE PROTECTION.

D) TECHNOLOGY OF LONG WALL COAL MINING WITH AUTOMATIC EXCAVATION.

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E) PLANNING OF MINES AND MINE AREAS.

F) OPTIMIZATION OF AUTOMATIC SYSTEMS FOR HARD COAL MINING.

G) APPLICATION OF "SLURRY" TYPE EXPLOSIVE MATERIALS IN UNDERGROUND MINES.

H) SIMULATION OF COAL SLURRY CIRCUITS FOR THE MECHANICAL CLEANING OF COAL.

I) TECHNOLOGY AND EQUIPMENT FOR CLEANING OF COARSE COAL GRAINS.

J) RESEARCH ON UNDERGROUND PROCESSES CAUSED BY LARGE PRESSURE CHANGES FOR THE PREVENTION OF SLIDES.

K) SIMULATION OF STRIP-MINING MINING SYSTEMS BY DIGITAL COMPUTER.

2. PROJECTS IN WHICH THE POLISH SIDE WOULD PARTICIPATE

A) RESEARCH ON COAL EXTRACTION, PARTICULARLY RECOVERY OF COAL EXTRACTS WHICH COULD BE TRANSFORMED INTO LIQUID FUELS.

B) RESEARCH ON SEPARATION OF SOLID PARTS FROM COAL EXTRACTS
-BY APPLICATION OF HYDROCYCLONES
BY APPLICATION OF CENTRIFUGAL MACHINES
-BY APPLICATION OF PLATE, DRUM AND COLUMN FILTERS.

C) TESTING OF CATALYST ACTIVITY, CAUSES OF ACTIVITY DROP AND REGENERATION METHODS.

D) RESEARCH ON HYDRODYNAMICAL PHENOMENA IN MODEL REACTORS.

E) SOLID DRUM FILTER CONSTRUCTION.

F) FLUID DEGASIFICATION OF COAL
-AUTOTHERMAL, WITHOUT PRIMARY TAR RECOVERY, WITH GAS RECOVERY OF 1500 KCAL M³ (6000 BTU)
-WITH PRIMARY TAR RECOVERY
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G) DEGASIFICATION OF COAL WITH CONSTANT HEAT CARRIER FOR RAPID COKE, PRIMARY TAR AND GAS PRODUCTION.

H) RAPID COKE BURNING FOR ENERGY NEEDS
-IN DUST BURNERS
-IN FLUID BURNERS

I) THE STORAGE OF HELIUM IN UNDERGROUND DEPOSITS

J) MODERN GAS CONTROL AND DISTRIBUTION SYSTEMS

K) OPTIMAL MEASUREMENT AND AIR POLLUTION CONTROL SYSTEMS
FOR SULPHUR OR NITROGEN OXIDES WITH DEMONSTRATION PROJECTS
IN BOTH COUNTRIES.

L) NEW METHODS FOR DECREASING SO₂ CONCENTRATIONS IN
BOILER COMBUSTION GAS

M) PREVENTION OF SPOIL HEAP DUSTING

N) PURIFICATION OF WATER FROM LIGNITE STRIP MINE.

3. PROJECTS UNDER DEVELOPMENT IN THE U.S. IN WHICH POLAND
SIDE IS INTERESTED.

A) UNDERGROUND MINING

1) REINFORCEMENT OF ROCKS BY CONSOLIDATION METHODS
USING SYNTHETIC RESINS

2) THE NEW METHODS OF BOLTING USING SYNTHETIC RESINS

3) AUTOMATIC INTERPRETATION OF SEISMIC ACTIVITY
MEASUREMENTS TO DETERMINE UNDERGROUND MINE SAFETY

4) MECHANIZATION OF ROCK DUSTING AND AUTOMATIC
CONTROL OF ROCK DUSTING QUALITY.

5) COAL AND ROCK DISINTEGRATION FOR MINE WORKING
AND INITIATING CONTROLLED CAVE-INS

B) ENVIRONMENTAL PROTECTION

1) DESULFURIZATION OF COAL BEFORE BURNING AND OTHER
RECYCLING PROCESSES

2) FLUID METHODS OF COAL DRYING
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3) DISPOSAL OF SULPHUR BEARING COAL WASTES

4) USES FOR FLY-ASH FROM POWER PLANTS

C) NEW METHODS OF TRANSPORT

1) HYDRO-TRANSPORT INSTALLATIONS FOR DISTANCES OF
MORE THAN 200 KMS AND 5 MILLION TONS CARRYING CAPACITY PER YEAR

2) SETTING OF PARAMETERS FOR LONG DISTANCE HYDRAULIC
TRANSPORT DESIGN

3) HIGH PRESSURE PUMPS FOR LONG DISTANCE HYDRAULIC TRANSPORT

4. LARGER JOINT FINANCIAL VENTURES

A) CONSTRUCTION IN POLAND OF THE TEST INSTALLATION FOR
CONVERSION OF 1000 TONS OF HARD COAL PER DAY TO LIQUID
FUEL. IT IS PROPOSED THAT THE TEST INSTALLATION WOULD

BE CONSTRUCTED BY ONE OF THE LARGE POLISH INDUSTRIAL PLANTS TO TAKE ADVANTAGE OF EXISTING PLANT FACILITIES AND ENERGY NETWORKS. COOPERATIVE COSTS WOULD THEREBY BE REDUCED TO THE HIGH TECHNOLOGY COMPONENTS OF THE CONVERSION PROCESS.

B) CONSTRUCTION OF INSTALLATION FOR 1000 TONS PER DAY HARD COAL GASIFICATION

1) USING THE "HYGAS" METHOD WITH FURTHER PROCESSING TO HIGH CALORIC CONTENT GAS

2) CONSTRUCTION OF TEST INSTALLATION FOR GASIFICATION OF 1000 TONS PER DAY OF HARD COAL ACCORDING TO "BI-GAS" METHOD, WITH DESULFURIZATION AND CO2 REMOVAL FROM THE GAS. THE GAS PRODUCED SHOULD HAVE CALORIFIC VALUE OF 4000 KCAL M3

3) USING OTHER METHODS

5. MINISTRY REPRESENTATIVE STATED FOLLOWING INDIVIDUALS CONTACTED MINISTRY OF MINING AND POWER IN WARSAW DURING PAST SIX MONTHS AND ISSUED GENERAL INVITATIONS TO POLISH EXPERTS TO VISIT US TO EXPLORE COOPERATIVE POSSIBILITIES IN COAL AND ENERGY FIELDS WITH INDUSTRIES THEY REPRESENT:

DR. ARMAND HAMMER, PRESIDENT, OCCIDENTAL PETROLEUM CORP., 10889 WISHIRE BLVD, LOS ANGELES, CALIFORNIA;

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ROBERT GUNNESS, PRESIDENT, STANDARD OIL OF INDIANA, 200 E. RANDALLS DRIVE, CHICAGO, ILLINOIS;

DANIEL GOLDY, PRESIDENT, INTERNATIONAL SYSTEMS AND CONTROLS CORP., HOUSTON, TEXAS;

PETER G. PETERSON, PRESIDENT, LEHMAN BROS., INC., 1 WILLIAM ST., NY, NY;

JOSEPH E. KOSSAN, MANAGER, NEW PRODUCTS PLANNING, FOSSIL POWER GENERATION DIVISION, BABCOCK AND WILCOX, 161 EAST 42ND STREET, NY, NY.

6. MINISTRY WOULD APPRECIATE CONTACTS BEING INFORMED OF POLISH MINING EXPERTS VISIT, WITH INDICATION THAT VICE MINISTER NOWAK WOULD BE AVAILABLE FOR MEETINGS WITH ABOVE LISTED INDIVIDUALS OR OTHERS AS APPROPRIATE. IT SHOULD BE NOTED THAT NOWAK IS WILLING TO EXTEND US VISIT TO US BY ONE WEEK IF NECESSARY.

DAVIES

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